



# PRESIDENCY UNIVERSITY

BENGALURU

Roll No.														
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## Mid - Term Examinations – October 2025

Date 10-10-2025

Time: 09.30am to 11.00am

School: SOE	Program: B.Tech. (PET)	
Course Code: PET2101	Course Name: Petroleum Geology	
Semester: III	Max Marks: 50	Weightage: 25%

CO - Levels	C01	C02	C03	C04	C05	C06
Marks	24	24	02			

### Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

### Part A

Answer ALL the Questions. Each question carries 2 marks.

5Q x 2M=10M

1.	Describe geology as a natural science.	2 Marks	L1	C01
2.	Recognize the appropriate missing word to fill in the blank: A key importance of geology in petroleum engineering is identifying _____ rocks for hydrocarbon _____.	2 Marks	L1	C01
3.	Differentiate between continental drift and plate tectonics.	2 Marks	L1	C02
4.	List the appropriate missing word to fill in the blank: The theory of Plate tectonics explains the _____ of Earth's _____ plates.	2 Marks	L1	C02
5.	Differentiate between petroleum geology and general geology.	2 Marks	L1	C03

### Part B

**Answer the Questions.****Total Marks 40M**

<b>6.</b>	<b>a.</b>	Review the importance of geology in petroleum engineering with suitable case examples.	<b>10 Marks</b>	<b>L2</b>	<b>C01</b>
	<b>b.</b>	Distinguish between Engineering Geology, Petroleum Geology, and Mining Geology in terms of scope and applications.	<b>10 Marks</b>	<b>L2</b>	<b>C01</b>
<b>Or</b>					
<b>7.</b>	<b>a.</b>	Interpret the different theories/hypotheses related to the origin of the Earth and classify them under catastrophic theories and evolutionary theories.	<b>10 Marks</b>	<b>L2</b>	<b>C01</b>
	<b>b.</b>	Classify the envelopes of the Earth and demonstrate their significance.	<b>10 Marks</b>	<b>L2</b>	<b>C01</b>

<b>8.</b>	<b>a.</b>	Illustrate with examples how earthquakes are related to plate tectonic activities and demonstrate their impacts.	<b>10 Marks</b>	<b>L3</b>	<b>C02</b>
	<b>b.</b>	Examine the importance of sediment transportation processes.	<b>10 Marks</b>	<b>L3</b>	<b>C02</b>
<b>Or</b>					
<b>9.</b>	<b>a.</b>	Illustrate the evidence that demonstrates Alfred Wegener's concept of Continental Drift.	<b>10 Marks</b>	<b>L3</b>	<b>C02</b>
	<b>b.</b>	Examine and interpret the interaction between internal and external processes in shaping Earth's surface topography.	<b>10 Marks</b>	<b>L3</b>	<b>C02</b>